TABLE 5

HOT BLAST STOVES, EMPIRICAL DATA

B'ast temperatures range from 500° to 1000°.

Heating surface ranges from 7 to 25 square meters (average 20 square meters)

per cubic meter per millimeter of blast. (Withwell Stoves.)

Cowper stoves. Velocity of cold blast in checker 1.50 to 2.00 m per sec.

Velocity of hot blast in checker 5.00 to 8.00 m per sec.

Volume to be taken at the temperature and pressure.

Le Chatelier states that the heat interchange rate is

650 cal. per square meter per hour for 250° temperature difference.

TABLE 6

FUHNACE TEMPERATURES

From Le Chatelier and Damour:	
Glass tank, bottle glass	1425°
Annealing lehr	585°
Gas retort setting, top	1190°
Bottom	1060°
Porcelain kilns, hard porcelain	1400°
Chinaware	1275°
Brick kilns, various sources:	
Building brick, cones 015a to 2a	800°-1170°
Vitrified pavers, cones la to 14	1150°-1410°
Glazed brick, cones 6a to 9a	1250°-1310°
Firebrick, cones 6 to 20	1250°-1530°
From Harbison and Walker Co., Catalogue:	
Glass furnace between the pots	1375°
In pots, refining	1310°
In pots, working	1045°
Tanks melted for casting	1310°
Annealing glassware	444°- 555°
Crucible steel furnace, Siemens varies from	1460°-1590°
. A rough method of estimating temperatures:	
Just glowing in the dark	525°
Dark red	700°
Cherry red	908°
Bright cherry red	1000°
Orange	1150°
White	1300°
Dazzling white	1500°